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## In The Claims:

- 1. (Cancelled)
- 2. (Currently Amended) The hybrid propulsion system of Claim 4 5 in which the hydrogen peroxide is in a concentration of 50-98 percent by weight.
- 3. (Currently Amended) The hybrid propulsion system of Claim 2 in which the concentration of hydrogen peroxide is in the range of 70-90 percent by weight.
  - 4. (Cancelled)
- 5. (Currently Amended) The hybrid propulsion system of claim 4 in which A hybrid propulsion system comprising:

a liquid fuel section containing an aqueous solution of hydrogen peroxide and a solid fuel section containing a fuel grain; and

an injector system located between the liquid fuel section and the solid fuel section, said injector system containing a catalyst for decomposition of hydrogen peroxide to produce a stream of decomposed hydrogen peroxide at elevated temperatures, said injector system introducing said stream of decomposed hydrogen peroxide at elevated temperatures into the solid fuel section to effect combustion of the fuel grain, wherein the catalyst is selected from a the group consisting of platinum, silver, platinum or silver coated nickel, and nickel coated with a combination of silver and samarium nitrate.

6. (Currently Amended) The hybrid propulsion system of claim  $\pm 5$  in which the injector system decomposes said stream of hydrogen peroxide by use of heat.

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- 7. (Currently Amended) The hybrid propulsion system of claim  $\pm 5$  [[,]] in which the solid fuel section contains a catalyst to decompose hydrogen peroxide [[,]] introduced to said solid fuel sections by said injector.
- 8. (Previously Amended) The hybrid propulsion system of Claim 7 wherein said catalyst in said solid fuel section is selected from the group consisting of platinum, silver, platinum or silver coated nickel, and nickel coated with a combination of silver and samarium nitrate.
- 9. (Currently Amended) The hybrid propulsion system of Claim ½ in which the aqueous solution of hydrogen peroxide additionally contains a solid oxidizer selected from the group consisting of at least one of ammonium dinitramide, and hydrazinium nitroformate, and mixtures thereof.
- 10. (Previously Amended) The hybrid propulsion system of Claim 9 in which the amount of ammonium dinitramide or hydrazinium nitroformate is in the range of 5-50% by weight.
- 11. (Currently Amended) The hybrid propulsion system of Claim 4 5 in which the aqueous solution of hydrogen peroxide additionally contains an oxidizer in solution or in suspended particulate form.
- 12. (Previously Amended) The hybrid propulsion system of Claim 11 in which the oxidizer is selected from the group consisting of chlorates, perchlorates and nitrates.
- 13. (Previously Amended) The hybrid propulsion system of claim 12, in which the oxidizer is selected from the group consisting of ammonium perchlorate and ammonium nitrate.

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14. (Currently Amended) The hybrid propulsion system of Claim 11 in which the aqueous solution of hydrogen peroxide additionally contains stabilizers such as chelating agents in order to increase storage stability.

## 15.-27. (Cancelled)

- 28. (Currently Amended) The hybrid propulsion system of Claim 4 5 in which the fuel grain contains a hydrogen peroxide decomposition catalyst.
- 29. (Original) The hybrid propulsion system of Claim 28 in which the decomposition catalyst is selected from the group consisting of potassium permanganate and manganese dioxide.